PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 39833	FOR FURTHER						
International application No. PCT/IL07/00918	ACTION International filing date (day/month) 19 July 2007 (19.07.2007)						
Applicant SPECTRUM DYNAMICS							
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau. This international search report consists of a total of							
With regard to the abstract, the text is approved as submitted by the applicant. the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant							
6. With regard to the drawings, a. the figure of the drawings to be possible as suggested by the a	ublished with the abstract is Figure N						
	uthority, because this figure better ch						

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International application No.

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
ı. 🔀	Claims Nos.: 428-448,453-540 and 578-582 because they relate to subject matter not required to be searched by this Authority, namely: Please See Continuation Sheet			
2.	Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:			
3.	Claims Nos.: 290-295, 359, 362, 363, 367, 371, 372, 380-382, 384, 449-540, 578-582 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
This International Searching Authority found multiple inventions in this international application, as follows: Please See Continuation Sheet				
1.	As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of any additional fees. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4.	No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:			
Remark on P	The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.			
	The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.			
	No protest accompanied the payment of additional search fees.			

Form PCT/ISA/210 (continuation of first sheet(2)) (April 2007)

International application No.
PCT/IL07/00918

A. CLASSIFICATION OF SUBJECT MATTER IPC: A61K 51/00(2006.01);A61N 5/00(2006.01)						
USPC: 424/1.11;604/403 According to International Patent Classification (IPC) or to both national classification and IPC						
B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 424/1.11; 604/403						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) East dbases- USPAT, PGPUB, EPO, JPO, Derwent						
C. DOCI	JMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap	ppropriate,	of the relevant passages	Relevant to claim No.		
Х	US 20060160157 (ZUCKERMAN, M.M.) 20 July 20	2006), para 144	273, 274, 276			
у	US 20050205792 (RUOSSO et al) 22 September 200	283-286, 289				
x	US 20070166277 (LIU et al) 19 July 2007 (19.07.20)	254-261, 267, 385-388, 566				
Y	•			ac acc acc acc		
x	US 20050020915 (BELARDINELLI et al) 27 Januar	283-286, 289 541, 552, 583, 584,				
х	US 20040086437 (JACKSON et al) 6 May 2004 (06.	586, 587 252, 253				
Further	documents are listed in the continuation of Box C.		See patent family annex.			
Special categories of cited documents:		T.,	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the			
	defining the general state of the art which is not considered to be of relevance		principle or theory underlying the inve	ntion		
"E" earlier app	plication or patent published on or after the international filing date	"X"	document of particular relevance; the considered novel or cannot be considered when the document is taken alone			
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y"				
"O" document referring to an oral disclosure, use, exhibition or other means			being obvious to a person skilled in the	e art		
"P" document published prior to the international filing date but later than the priority date claimed		. &"	document member of the same patent	family		
Date of the actual completion of the international search			OCT 2008	h report		
01 September 2008 (01.09.2008) Name and mailing address of the 1SA/LIS						
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US			Authorized officer			
Commissioner for Patents		MARIA B. MARVICH				
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Box II Observations where certain claims were found unsearchable 1. because they relate to subject matter not required to be searched by this Authority, namely:

because the claimed recitation of a use, without setting forth any steps involved in the process, results in an improper definition of a process, i.e., results in a claim which is not a proper process claim under 35 U.S.C. 101. See for example Ex parte Dunki, 153 USPQ 678 (Bd.App. 1967) and Clinical Products, Ltd. v. Brenner, 255 F. Supp. 131, 149 USPQ 475 (D.D.C. 1966).

BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid.

Group I-LXXXIII, claims 1-251 and 566-577, drawn to methods of 83 distinct methods of radioimaging as set forth in tables 1-83 wherein the methods require administration of radiopharmaceuticals followed by radioimaging the target organ.

Groups LXXXIV-CXLIV, claim 252, drawn to 60 distinct methods of packaging a pharmaceutical comprising packaging any one of 60 distinct radiopharmaceuticals.

Group CXLV-CCV, claim 253, drawn to any one of 60 distinct packaged radiopharmaceuticals.

Group CCVI, claims 254-272, drawn to a radiopharmaceutical have a dose equivalent of 2.5 mrem or less per kg body weight or 150 mrem or less.

Group CCVII-CCCLXVIII, Claims 273-276, drawn to one of approximately 162 radiopharmaceuticals that are in low dose

Group CCCLXIX, Claims 283-289, 296-331, 339-358, 360, 361, 364-366, 368-370, 373-379, 383, drawn to methods of radioimaging the heart comprising administering a low dose of a first and/or a second pharmaceutical followed by acquiring date representing a distribution of the first pharmaceutical

Group CCCLXX, Claims 283-284, 332-335, 368-370, 373-379, 383 drawn to methods of radioimaging the lung comprising administering a low dose of a first pharmaceutical followed by acquiring date representing a distribution of the first pharmaceutical

Group CCCLXXI, Claims 283-284, 336-338, 368-370, 373-379, 383 drawn to methods of radioimaging the bone comprising administering a low dose of a first pharmaceutical followed by acquiring date representing a distribution of the first pharmaceutical

Groups CCCLXXII-CCCLLXLII, Claims 385-427, drawn to any of 20 distinct kits comprising a first and second radiopharmaceutical wherein the 20 kits are found in claims 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412,414, 416, 418, 420, 422, 424, 426.

Group CCCXCIII, Claims 541-565 and 583-588, drawn to a diagnostic pharmaceutical kit comprising a first and/or second radiopharmaceutical with saline and/or a pharmacological stress agent and methods of using.

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The inventions of Groups I-LXXXXIII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the "special technical feature" of claims 1-251 and 566-577 is the step of administering a radiopharmacetucial followed by radioimaging, which as shown by Lui et al (see e.g. claim 44) lacks novelty of inventive step and does not make a contribution over the art.

Each of Groups LXXXIV-CXLIV is drawn to methods of packaging structurally and functionally distinct compounds that do not share a common structural feature. And as the methods are drawn to processes that require distinct products, the methods themselves are distinct in that distinct products are used in the methods and distinct products are the result of the methods. Groups I-LXXXXIII and Groups LXXXIV-CXLIV do not share any method steps and therefore comprise distinct methods and steps.

Each of Groups CCVII-CCCLXVIII do not relate to a single general inventive concept because they lack the same or corresponding technical feature. The "special technical feature" of Groups CCVII-CCCLXVIII is a low dose radiopharmaceutical, which is shown by Zuckerman (20060160157, see para 144), to lack novelty of inventive step and does not make a contribution over the prior art.

Groups CCCLXIX-CCCLXXI do not relate to a single general inventive concept because they lack the same or corresponding technical feature. The "special technical feature" of Groups CCVII-CCCLXVIII is a low dose radiopharmaceutical that is administered followed by acquiring date representing distribution of the at least first radiopharmaceutical, which is shown by Liu et al (see 20070166227 for PCTUS0504872, see e.g. para 233) in view of Ruosso et al (20050205792, see figure 5 and para 0086), to lack novelty of inventive step and does not make a contribution over the prior art.

Groups CCCLXXII-CCCLLXLII do not relate to a single general inventive concept because they lack the same or corresponding technical feature. The "special technical feature" of Groups CCVII-CCCLXVIII is a kit comprising two radiopharmaceuticals, which is shown by Liu et al (see 20070166227 for PCTUS0504872, see e.g. para 139), to lack novelty of inventive step and does not make a contribution over the prior art.

Group CCCXCIII, does not relate to a single general inventive concept with any of Groups I- CCCXCII because they lack the same or corresponding technical feature. The "special technical feature" of Group CCCXCIII is a kit comprising two radiopharmaceuticals, which is shown by Belardinelli et al (US 20050020915; see para 242), to lack novelty of invention and does not make a contribution over the prior art.